

We claim:

1. A method of transferring a packet switched call, the packet switched call being between a mobile station and an end point, the method comprising:  
  
    establishing a bearer path if a call transfer request associated with the mobile station is received.
2. The method of claim 1, wherein the call transfer request is a call request including an identifier provided by the mobile station that identifies the call request as a call transfer request.
3. The method of claim 2, wherein the identifier is a public identifier provided for use by mobile stations to request call transfer of an ongoing packet switched call.
4. The method of claim 2, wherein the identifier is a unique identifier associated with the mobile station for use in requesting call transfer of an ongoing packet switched call.

5. The method of claim 4, wherein the unique identifier is a public telecommunication number assigned to the mobile station for use in the second network.

6. The method of claim 2, wherein the call request is a SIP INVITE request.

7. The method of claim 1, wherein the establishing step comprises:  
    sending a call control request to the end point requesting agreement to transition the packet call controller from a call control agent for a first call control path from the first network to the end point to a call control agent for a second call control path from the second network to the end point.

8. The method of claim 7, wherein the establishing step further comprises:

    setting up the bearer path at the packet call controller as the call control agent for the second call control path.

9. The method of claim 7, wherein the control request is a SIP re-INVITE request.

10. The method of claim 9, wherein the call transfer request is a SIP INVITE request.

11. The method of claim 1, wherein the establishing step comprises:

receiving a SIP INVITE request including a Request URI;

determining whether the SIP INVITE request requests transfer of the packet switched call on the first network to a circuit switched call on the second network based on the Request URI; and

setting up the bearer path between the end point and the second network when the determining step determines that the SIP INVITE request does request transfer.

12. The method of claim 11, wherein the determining step determines that the SIP INVITE request does request transfer when the Request URI is a public identifier provided for use by mobile stations to request call transfer of an ongoing packet switched call.

13. The method of claim 11, wherein the determining step determines that the SIP INVITE request does request transfer when the Request

URI is a unique identifier associated with the mobile station for use in requesting call transfer of an ongoing packet switched call.

14. The method of claim 11, wherein the establishing step further comprises:

    sending a SIP re-INVITE request to the end point requesting agreement to transition the packet call controller from a call control agent for a first call control path from the first network to the end point to a call control agent for a second call control path from the second network to the end point; and wherein

    the setting up step is performed by the packet call controller as the call control agent for the second call control path.

15. The method of claim 11, further comprising:

    serving as a proxy for the packet switched call prior to the receiving step;

    accumulating information regarding the packet switched call while serving as the proxy; and wherein

    the determining step determines that the SIP INVITE request does request transfer based on at least the accumulated information and the Request URI.

16. A method of transferring a packet switched call carried over a first network to a circuit switched call carried over a second network, comprising:

    sending a call transfer request associated with a mobile station involved in the packet switched call if a call origination request for a circuit switched call is received.

17. The method of claim 16, wherein the call transfer request is a call request including an identifier identifying the call request as a call transfer request.

18. The method of claim 17, wherein the identifier is a public identifier provided for use by mobile stations to request call transfer of an ongoing packet switched call.

19. The method of claim 17, wherein the identifier is a unique identifier associated with the mobile station for use in requesting call transfer of an ongoing packet switched call.

20. The method of claim 19, wherein the unique identifier is a public telecommunication number assigned to the mobile station for use in the second network.

21. The method of claim 17, wherein the call request is a SIP INVITE request.